

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/539,488

Source: PCT

Date Processed by STIC: 6-30-05

ENTERED

**CRF Errors Edited by the STIC Systems
Branch**

Serial Number:

10/539,488

CRF Edit Date:

6/30/05

Edited by:

Re

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

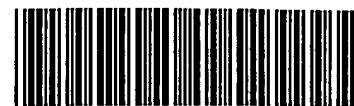
☒ Deleted: ☐ invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

___ Other:

Raw Sequence Listing before editing,
for reference only



PCT

RAW SEQUENCE LISTING

DATE: 06/30/2005

PATENT APPLICATION: US/10/539,488

TIME: 15:26:14

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\06302005\J539488.raw

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3 <110> APPLICANT: Agrinomics LLC
5 <120> TITLE OF INVENTION: GENERATION OF PLANTS WITH ALTERED OIL CONTENT
7 <130> FILE REFERENCE: 6616-71295-07
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/539,488
C--> 9 <141> CURRENT FILING DATE: 2005-06-17
9 <150> PRIOR APPLICATION NUMBER: PCT/US2003/040992
10 <151> PRIOR FILING DATE: 2003-12-18
12 <150> PRIOR APPLICATION NUMBER: 60/434,795
13 <151> PRIOR FILING DATE: 2002-12-18
15 <160> NUMBER OF SEQ ID NOS: 5
17 <170> SOFTWARE: PatentIn version 3.2
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 1482
21 <212> TYPE: DNA
22 <213> ORGANISM: Arabidopsis thaliana
24 <400> SEQUENCE: 1
25 atggattacc ccatgaagaa ggtaaaaatc tttttcaact acctcatggc gcatcgcttc      60
27 aagctctgct tcttaccatt aatgggttgct atagccgtgg aggcgtctcg tctttccaca      120
29 caagatctcc aaaactttta cctctactta caaaacaacc acacatctct aacctgttcc      180
31 ttcctttacc tcgctctcgg gtcgactctt tacctcatga cccggcccaa acccgtttat      240
33 ctcggtgact ttagctgcta cctcccaccg tcgcatctca aagccagcac ccagaggatc      300
35 atgcaacacg taaggcttgt acgagaagca ggcgcgtgga agcaagagtc cgattacttg      360
37 atggacttct gcgagaagat tctagaacgt tccggtctag gccaaagagac gtacgtaccc      420
39 gaaggtcttc aaactttgcc actacaacag aatttggtcg tatcacgtat agagacggag      480
41 gaagttatta ttggtgcggg cgataatctg tttcgcaaca cgggaataag ccctagtgat      540
43 ataggtatat tggtggtgaa ttcaagcact tttaatccaa caccttcgct atcaagtatc      600
45 ttagtgaata agtttaaaact tagggataat ataaagagct tgaatcttgg tgggatgggg      660
47 tgtagcgtcg gagtcacgcg tatcgatgcg gctaagagct tgttacaagt tcatagaaac      720
49 acttatgctc ttgtggtgag cacggagaac atcactcaaa acttgtacat gggtaacaac      780
51 aaatcaatgt tggttacaaa ctgtttgttc cgtatagggtg gggccgcgat tttgctttct      840
53 aaccggtcta tagatcgtaa acgcgcaaaa tacgagcttg ttcacaccgt gcgggtccat      900
55 accggagcag atgaccgatc ctatgaatgt gcaactcaag aagaggatga agatggcata      960
57 gttgggggtt ccttgtcaaa gaatctacca atggtagctg caagaaccct aaagatcaat     1020
59 atcgcaactt tgggtccgct tgttcttccc ataagcgaga agtttcactt ctttgtgagg     1080
61 ttcggttaaaa agaagtttct caaccccaag ctaaagcatt acattccgga tttcaagctc     1140
63 gcattcgagc atttctgtat ccatgcgggt ggtagagcgc taattgatga gatggagaag     1200
65 aatcttcacg taactccact agacgttgag gcttcaagaa tgacattaca caggtttggt     1260
67 aatacctctt cgagctccat ttggtacgag ttggcttaca cagaagccaa aggaaggatg     1320
69 acgaaaggag ataggatttg gcagattgag ttggggtcag gttttaagtg taatagttca     1380
71 gtttggtggt ctcttcgtaa cgtcaagcct tctactaata atccttgga acagtgtcta     1440
73 cacaaatatc cagttgagat cgatatagat ttaaaagagt ga                        1482
76 <210> SEQ ID NO: 2
77 <211> LENGTH: 493

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78 <212> TYPE: PRT

79 <213> ORGANISM: Arabidopsis thaliana

81 <400> SEQUENCE: 2

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83 Met Asp Tyr Pro Met Lys Lys Val Lys Ile Phe Phe Asn Tyr Leu Met
84 1          5          10          15
87 Ala His Arg Phe Lys Leu Cys Phe Leu Pro Leu Met Val Ala Ile Ala
88          20          25          30
91 Val Glu Ala Ser Arg Leu Ser Thr Gln Asp Leu Gln Asn Phe Tyr Leu
92          35          40          45
95 Tyr Leu Gln Asn Asn His Thr Ser Leu Thr Met Phe Phe Leu Tyr Leu
96          50          55          60
99 Ala Leu Gly Ser Thr Leu Tyr Leu Met Thr Arg Pro Lys Pro Val Tyr
100 65          70          75          80
103 Leu Val Asp Phe Ser Cys Tyr Leu Pro Pro Ser His Leu Lys Ala Ser
104          85          90          95
107 Thr Gln Arg Ile Met Gln His Val Arg Leu Val Arg Glu Ala Gly Ala
108          100          105          110
111 Trp Lys Gln Glu Ser Asp Tyr Leu Met Asp Phe Cys Glu Lys Ile Leu
112          115          120          125
115 Glu Arg Ser Gly Leu Gly Gln Glu Thr Tyr Val Pro Glu Gly Leu Gln
116          130          135          140
119 Thr Leu Pro Leu Gln Gln Asn Leu Ala Val Ser Arg Ile Glu Thr Glu
120 145          150          155          160
123 Glu Val Ile Ile Gly Ala Val Asp Asn Leu Phe Arg Asn Thr Gly Ile
124          165          170          175
127 Ser Pro Ser Asp Ile Gly Ile Leu Val Val Asn Ser Ser Thr Phe Asn
128          180          185          190
131 Pro Thr Pro Ser Leu Ser Ser Ile Leu Val Asn Lys Phe Lys Leu Arg
132          195          200          205
135 Asp Asn Ile Lys Ser Leu Asn Leu Gly Gly Met Gly Cys Ser Ala Gly
136          210          215          220
139 Val Ile Ala Ile Asp Ala Ala Lys Ser Leu Leu Gln Val His Arg Asn
140 225          230          235          240
143 Thr Tyr Ala Leu Val Val Ser Thr Glu Asn Ile Thr Gln Asn Leu Tyr
144          245          250          255
147 Met Gly Asn Asn Lys Ser Met Leu Val Thr Asn Cys Leu Phe Arg Ile
148          260          265          270
151 Gly Gly Ala Ala Ile Leu Leu Ser Asn Arg Ser Ile Asp Arg Lys Arg
152          275          280          285
155 Ala Lys Tyr Glu Leu Val His Thr Val Arg Val His Thr Gly Ala Asp
156          290          295          300
159 Asp Arg Ser Tyr Glu Cys Ala Thr Gln Glu Glu Asp Glu Asp Gly Ile
160 305          310          315          320
163 Val Gly Val Ser Leu Ser Lys Asn Leu Pro Met Val Ala Ala Arg Thr
164          325          330          335
167 Leu Lys Ile Asn Ile Ala Thr Leu Gly Pro Leu Val Leu Pro Ile Ser
168          340          345          350
171 Glu Lys Phe His Phe Phe Val Arg Phe Val Lys Lys Lys Phe Leu Asn
172          355          360          365

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175 Pro Lys Leu Lys His Tyr Ile Pro Asp Phe Lys Leu Ala Phe Glu His
176      370                      375                      380
179 Phe Cys Ile His Ala Gly Gly Arg Ala Leu Ile Asp Glu Met Glu Lys
180 385                      390                      395                      400
183 Asn Leu His Leu Thr Pro Leu Asp Val Glu Ala Ser Arg Met Thr Leu
184                      405                      410                      415
187 His Arg Phe Gly Asn Thr Ser Ser Ser Ser Ile Trp Tyr Glu Leu Ala
188                      420                      425                      430
191 Tyr Thr Glu Ala Lys Gly Arg Met Thr Lys Gly Asp Arg Ile Trp Gln
192                      435                      440                      445
195 Ile Ala Leu Gly Ser Gly Phe Lys Cys Asn Ser Ser Val Trp Val Ala
196      450                      455                      460
199 Leu Arg Asn Val Lys Pro Ser Thr Asn Asn Pro Trp Glu Gln Cys Leu
200 465                      470                      475                      480
203 His Lys Tyr Pro Val Glu Ile Asp Ile Asp Leu Lys Glu
204                      485                      490

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207 <210> SEQ ID NO: 3

208 <211> LENGTH: 657

209 <212> TYPE: DNA

210 <213> ORGANISM: Glycine max

213 <220> FEATURE:

214 <221> NAME/KEY: misc_feature

215 <222> LOCATION: (653)..(654)

216 <223> OTHER INFORMATION: n is a, c, g, or t

218 <400> SEQUENCE: 3

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219 ggaattcggc acgaggcaag tcctacggct gtgtcttcca agaagaagat gagacaaaaa      60
221 gaattggtgt ggcactctca aaagacctaa tggctgtggc aggagaggcc ctaaagacca      120
223 acatcacaaac actaggaccc ttggtcctcc ctatgtcaga acagcttctt ttctttgccca      180
225 cattggtggc taggaaagtg ttcaagatga agataaaacc atacatocca gatttcaagt      240
227 tggcctttga gcatttttgc attcatgctg gagggagggc agtggtggat gagttggaga      300
229 agaattctga gctctctgat tggcacatgg agccctcaag gatgacacta aataggtttg      360
231 gtaacacttc tagcagttcc ttgtggtatg aattggccta cactgaagcc aaagggagga      420
233 tcaagaaagg tgacaggact tggcagattg catttgggtc aggggtttaag tgcaacagtg      480
235 ctgtgtggag ggctttgagg accatcaatc ctgctaagga gaacaatcct tggatggatg      540
237 agattcatga ctttccagtt catgtgccta aagtggcacc aattgcttcc taaattaatc      600
W--> 239 aaacatcttt ttctcttttt agtatgattc taaaattaaa gaaacttggt cannaac      657

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242 <210> SEQ ID NO: 4

243 <211> LENGTH: 1130

244 <212> TYPE: DNA

245 <213> ORGANISM: Glycine max

247 <400> SEQUENCE: 4

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248 aacattactc agaattggta ctttgggaac aagaaatcca tgctcattcc caattgccta      60
250 tttcgtgtgg gctgctctgc gctgcttctc tctaacaagc cggcagatcg aaggagggcc      120
252 aagtaccggc ttgtccacgt cgtgaggact catcgcgggg cgcacgacaa ggcgttccgg      180
254 tgtgtttacc aggagcagga tgatgctggg aaaactgggtg tttccttgtc taaggatttg      240
256 atggcaattg ctggtggagc attgaagact aacatcacca cacttgggtcc tctggtgctg      300
258 ccaattagtg agcagcttct gtttttcgtg actctgctga tgaacaagtt atttaaggct      360
260 ggtgtgaagc cttacatacc ggatttcaag cttgcatttg atcatttttg tatccatgct      420
262 ggtggcaggg ctgtgattga tgagttggag aagaacctgc agctgcttcc tgagcatgtg      480

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RAW SEQUENCE LISTING

DATE: 06/30/2005

PATENT APPLICATION: US/10/539,488

TIME: 15:26:15

Input Set : A:\pto.kd.txt

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264 gaggcttcta ggatgacctt tcatagattt ggggaacactt cctcaagctc catttggtat 540
266 gagttggctt acattgaagc caaagggagg atcaagaagg gtaacaggat ttggcaaatt 600
268 gcgtttgga gtggtttcaa gtgtaacagt gcggtttggc aggctctgag gaatgtgagg 660
270 ccttctccta atggaccatg ggaagattgc attcataagt atcctgtgga aatagtcaca 720
272 tagtgatcat agttcagttc agttctcagt cacatactct ggctgctaca acttaattca 780
274 gggtagcctt cattagtttc cagatccatt gtctctctct ctggtttaga tttcattgtg 840
276 taattcactg cctcttttgt gtttgatgat tgtggatttt cattgggtta aattcatgta 900
278 tctggagtaa tatgatatgg ggaattcctg aatttttttt ctctctgctg atgcacttat 960
280 gaatttttat ttttttagtc ataaagtgtg gcctgggtta cgaggcgctt ataggccccg 1020
282 atgcgaaaat actcctttga catatgtagg ggtgacggta cactgcca ataattctct 1080
284 cccatatttt tacgcaacga ggaccttta gcctcgcgga ccagagctgc 1130
287 <210> SEQ ID NO: 5
288 <211> LENGTH: 960
289 <212> TYPE: DNA
290 <213> ORGANISM: Gossypium arboreum
292 <400> SEQUENCE: 5
293 tggagaacat tactctcaac tgggacttcg gcaacgaccg atccatgcta gtctctaact 60
295 gcttggtccg tatgggcggg gccgcgatcc ttctatcaaa ccggtcatcc gatcgccgcc 120
297 gctccaagta ccaactcatc cacaccgtac gaaccacaa aggagccgac gacaaatgct 180
299 acaactgcgt ctccaacgt gaggacgaca ccaaacgaat aggcgtttcc ctctccaaag 240
301 acctcatggc ggtcgccggc gaagccctca aaaccaacat caccacctc ggtccattag 300
303 tctctcccat gtccgaacaa ctctcttttt tcatcacttt agtagccga aaagtcttca 360
305 aaatgaagat caggccatac atcccggatt tcaaaactagc tttcgagcat ttttgcattc 420
307 atgcaggtgg gagagccgtg ttagatgagc tagaaaagaa ccttgagctc tcagattggc 480
309 acatggaacc atcgaggatg acactttaca ggttcggtaa cacgtcgagc agctctttat 540
311 ggtacgaact agcttactcg gaagccaaag gaaggatccg aaaaggtgat cggacatggc 600
313 agattgcatt cgggtcaggg tttaaatgca acagtgtgt atggaaagca ttgaagacca 660
315 ttaatccagc aaaggagaag agtccatgga ttgatgaaat tgatgaatat cctgtttatg 720
317 tgccaaaggt ggccactgtt tcttcttctt cttcttccca aaaaaccata taattttcat 780
319 cattcaaagg aagagaatag agagaaagag aggacttaat cagtaattat tagaactatg 840
321 atttattttt tattttttta catgtttaat tgtgtgttga tttgaagatt aattttattc 900
323 aagttgaaga tatatatata taattttctt ttcatttgca aaaaaaaaaa aagaaactcg 960

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/539,488

DATE: 06/30/2005
TIME: 15:26:16

Input Set : A:\pto.kd.txt
Output Set: N:\CRF4\06302005\J539488.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 653,654 ✓

VERIFICATION SUMMARY

DATE: 06/30/2005

PATENT APPLICATION: US/10/539,488

TIME: 15:26:16

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\06302005\J539488.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:239 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:600